

CLAIMS

1. A radio communication system including a server device and
a mobile terminal device to which a memory card is attached,
5 the server device, the mobile terminal device, and the memory
card performing communication including a first procedure and
a second procedure,

the server device transmitting a start request to the
mobile terminal device, the start request requiring the
10 communication to be started,

the mobile terminal device comprising:

a receiving unit operable to receive the start request
from the server device;

an activating unit operable to activate the memory card,
15 when the receiving unit receives the start request; and

a first communication unit operable to, when the receiving
unit receives the start request, perform the first procedure
with the server device, and

the memory card comprising:

20 a boot unit operable to perform a boot operation when the
memory card is activated, the boot operation being performed
concurrently with the first procedure between the first

communication unit and the server device; and

a second communication unit operable to, when the boot unit completes the boot operation, perform the second procedure with the server device.

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2. A mobile terminal device to which a memory card is attached, the mobile terminal device and a server device constituting a radio communication system, the mobile terminal device comprising:

10 a receiving unit operable to receive a start request from the server device, the start request requiring the mobile terminal device, the server device, and the memory card to start communication including a plurality of procedures;

an activating unit operable to activate the memory card,
15 when the receiving unit receives the start request; and

a communication unit operable to, when the receiving unit receives the start request, perform an initial procedure of the plurality of procedures with the server device.

20 3. The mobile terminal device of Claim 2, wherein

when the receiving unit receives the start request, the activating unit supplies power to the memory card.

4. The mobile terminal device of Claim 3, wherein
when the communication is completed, the activating unit
stops supplying power to the memory card.

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5. The mobile terminal device of Claim 3, wherein
the communication unit notifies the memory card of
information obtained by performing the initial procedure.

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6. The mobile terminal device of Claim 2, wherein
before the receiving unit receives the start request, the
activating unit supplies power to the memory card, and stops
supplying power on reception of an instruction by the
communication unit, and

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before the receiving unit receives the start request and
while the activating unit is supplying power to the memory card,
the communication unit obtains information necessary to perform
the initial procedure, from the memory card, and then instructs
the activating unit to stop supplying power to the memory card.

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7. The mobile terminal device of Claim 6, wherein
before the receiving unit receives the start request and

while the activating unit is supplying power to the memory card, the communication unit performs authentication with the memory card, and

if the authentication is successful, the communication
5 unit obtains, from the memory card, the information necessary to perform the initial procedure, and then instructs the activating unit to stop supplying power.

8. The mobile terminal device of Claim 6, wherein

10 the server device is an automatic ticket gate installed at a train station, and

the communication is related to a fare adjustment operation.

15 9. The mobile terminal device of Claim 6, wherein

the server device is a cash register installed at a shop, and

the communication is related to a payment for a purchase made at the shop.

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10. A mobile terminal device that has a module built-in, the mobile terminal device and a server device constituting a radio

communication system, the mobile terminal device comprising:

a receiving unit operable to receive a start request from the server device, the start request requiring the mobile terminal device, the module, and the server device to start communication including a first procedure and a second procedure;

an activating unit operable to activate the module, when the receiving unit receives the start request; and

a first communication unit operable to, when the receiving unit receives the start request, perform the first procedure with the server device, and

the module comprising:

a boot unit operable to, when the module is activated, perform a boot operation, the boot operation being performed concurrently with the first procedure between the first communication unit and the server device; and

a second communication unit operable to, when the boot unit completes the boot operation, perform the second procedure with the server device.

11. The mobile terminal device of Claim 10, wherein

the second procedure by the second communication unit

includes authentication.

12. The mobile terminal device of Claim 11, wherein
the module is an LSI.

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13. A server device constituting a radio communication system
together with a mobile terminal device to which a memory card
is attached, wherein

the server device transmits a start request to the mobile
10 terminal device to require the server device, the mobile terminal
device, and the memory card to start communication including
a plurality of procedures.

14. A memory card attached to a mobile terminal device, the
15 mobile terminal device activating the memory card when receiving
a start request from a server device, the start request requiring
the memory card, the mobile terminal device, and the server
device to start communication including a first procedure and
a second procedure, the memory card comprising:

20 a boot unit operable to perform a boot operation when the
memory card is activated, the boot operation being performed
concurrently with the first procedure between the mobile

terminal device and the server device; and

a communication unit operable to, when the boot unit completes the boot operation, perform the second procedure with the server device.

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15. The memory card of Claim 14, wherein

the second procedure by the communication unit includes authentication.

10 16. A computer-readable program applied to a mobile terminal device to which a memory card is attached, the mobile terminal device and a server device constituting a radio communication system, the program causing a computer to perform steps of:

receiving a start request from the server device, the start
15 request requiring the mobile terminal device, the server device, and the memory card to start communication including a plurality of procedures;

activating the memory card, when the start request is received; and

20 performing an initial procedure of the plurality of procedures between the server device and the mobile terminal device, when the start request is received.

17. A computer-readable program applied to a memory card that is attached to a mobile terminal device, the mobile terminal device activating the memory card when receiving a start request from a server device, the start request requiring the memory card, the mobile terminal device, and the server device to start communication including a first procedure and a second procedure, the program causing a computer to perform steps of:

performing a boot operation when the memory card is activated, concurrently with the first procedure between the mobile terminal device and the server device; and

performing the second procedure between the memory card and the server device, when the boot operation is completed.